

International application No.
PCT/JP2004/001523

	OUT OF THE PROPERTY OF THE PRO			
A. CLAS	SIFICATION OF SUBJECT MATTER C1 <sup>7</sup> F16K1/226			
	2.2.2, 22.3			
According	to International Data-A Classification (IDC)			
	to International Patent Classification (IPC) or to both	national classification and I	PC	
	S SEARCHED			
Int.	ocumentation searched (classification system follower C1 F16K1/16-1/226, 27/02, F0	l by classification symbols)	) '07	
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Documenta	tion searched other than minimum documentation to the	ne extent that such documer	nts are included in th	ne fields searched
Jitsi	uyo Shinan Koho 1926-1996 i Jitsuyo Shinan Koho 1971-2004	Toroku Jitsuyo	Shinan Koho	1994-2004
		<b>4</b>		1996-2004
Electronic d	ata base consulted during the international search (na	ne of data base and, where	practicable, search t	erms used)
C. DOCU	MENTS CONSIDERED TO BE RELEVANT			
Category*				
A .	Citation of document, with indication, where a US 6338467 B1 (Mabboux et a.		passages R	elevant to claim No.
Α .	US 6338467 B1 (Mabboux et a 15 January, 2002 (15.01.02),	L.),		1-4
	Full text; Figs. 1 to 9	•	İ	
	& EP 1070891 A & FF	R 2796698 A	1	
A	JP 61-24766 Y2 (Kabushiki Ka	aisha Okumura	{	1-4
	Seisakusho),			± <del>1</del> .
	25 July, 1986 (25.07.86), Full text; Figs. 1 to 8		,	
	(Family: none)			
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A	JP 9-329028 A (Aisin Seiki ( 22 December, 1997 (22.12.97)	Co., Ltd.),		1-4
	Full text; Figs. 1 to 9	<i>r</i>	j	
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× Furthe	r documents are listed in the continuation of Box C.	See patent family a	илпех.	
* Special categories of cited documents:  "A" later document published after the international filing date or				
"A" docume consider	nt defining the general state of the art which is not ed to be of particular relevance	priority date and not i	n conflict with the app ple or theory underlyin	lication but cited to
"E" earlier d	ocument but published on or after the international filing	"X" document of particula	r relevance; the claime	d invention cannot be
"L" docume	nt which may throw doubts on priority claim(s) or which is establish the publication date of another citation or other	step when the docume	annot be considered to ent is taken alone	
special i	reason (as specified)	"Y" document of particula considered to involve	an inventive step wher	the document is
means	nt referring to an oral disclosure, use, exhibition or other	combined with one or combination being ob	more other such docu	ments, such
"P" docume than the	nt published prior to the international filing date but later priority date claimed	"&" document member of	the same patent family	o in the art
Date of the a	ctual completion of the international search	Date of mailing of the inte	ernational search ren	port
U9 Ma	arch, 2004 (09.03.04)	23 March, 2	2004 (23.03.	04)
Manus				
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile No		Telephone No.		
Form PCT/I	SA/210 (second sheet) (July 1998)			



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PCT/JP2004/001523

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2001-4038 A (Kubota Corp.), 09 January, 2001 (09.01.01), Full text; Figs. 1 to 7 (Family: none)	1-4
A	JP 3107705 B2 (Kubota Corp.), 13 November, 2000 (13.11.00), Full text; Figs. 1 to 6 (Family: none)	1-4